

PRESS RELEASE

Window to the future:

REHAU presents Smart Window and other innovations at the "fensterbau frontale"

Even windows can be smart: At the "fensterbau frontale" in Nuremberg, polymer specialist REHAU presents the reality and vision of networked, intelligent windows. With its material and system solutions, the company has the demands of end users firmly in its sights and, with its innovations, sets new standards for the functionality and design of modern windows.

ERLANGEN – Which features and applications are already possible today - and which should be possible tomorrow? The trade fair presentation of the polymer specialist REHAU is dedicated to these questions with the motto "The REHAU View" from 21 to 24 March 2018 in Nuremberg. "On the occasion of the 30th anniversary of the 'fensterbau frontale', we will be showing the features that distinguish windows today and in the future," explains Carsten Heuer, since June 2017 Head of the Windows Solutions Division at REHAU and member of the extended Group Executive Board. On an area of 860 square metres, the company, with its fair stand at its usual spot (Hall 4A-123), invites visitors to get a first-hand impression of the features and aesthetics of its windows. "Whether living or working environments: At the REHAU fair stand, visitors enter the most important areas of life," announced Carsten Heuer. "And they can experience first hand the range of innovations opened up by the 'Smartify' claim of the window industry."

Window systems communicate

A window that also ventilates when closed and at the same time minimises heat losses and noise emission: For this pioneering combination, a jury of experts recently awarded the REHAU GENE0 INOVENT ventilation system the "Plus X" award in the categories Innovation, High Quality, Functionality and Ecology. The polymer specialist used this example to demonstrate at the "fensterbau frontale" how it integrates windows into a networked system. With GENE0 INOVENT, manual ventilation has already become superfluous. The ventilation phases can now be centrally controlled and better adjusted to individual requirements. Thanks to integrated sensors that measure for instance room humidity or the CO₂ content of the air, GENE0 INOVENT independently decides when and at what intensity its ventilation system will be used.

Will it in the future also be possible to control applications directly via the window pane as a touch screen? REHAU presents a concept of this 21st century technology for the first time at the "fensterbau frontale". The window of the future integrates digital privacy screening and sun protection in the glass pane, which can be regulated not only via a control element in the

window frame, but also directly via a touch element on the window pane or from afar via an app. Another intelligent addition is the new window alarm system REHAU Smart Guard, which aims to deter burglars from a potential mechanical attack through several escalation levels and, for example, automatically closes roller shutters or places an emergency call if use of force is detected. The concrete measures can be determined individually.

Functionality and aesthetics

"High-performance material is the decisive basis for future-oriented complete solutions in the window industry," emphasizes Carsten Heuer. For a decade, many REHAU window systems no longer require steel reinforcement thanks to the fibre composite material RAU-FIPRO. The current development of RAU-FIPRO provides window profiles with even more dimensional stability under heat and allows them to bear a higher sash weight, so that larger window elements can be used according to the wishes of property owners and architects.

The architectural design elements offered by REHAU to its customers and partners thus include additional options when it comes to window sizes. The polymer specialist places particular importance on providing a wide range of options for individual room and façade design. For that reason, REHAU is adding other trend colours and the KALEIDO VISION glass look to the KALEIDO FOIL design range with metallic, wood and uni decors for window and door profiles. Here, the glass laminate RAUVISIO crystal provides the same scratch-resistant and easy-to-clean material as on modern furniture surfaces. This makes it possible to harmoniously integrate REHAU windows into different living and colour concepts. "With all our products, for example also those in the area of 'Building Information Modeling', we strive to make the work of planners and architects easier," explains Carsten Heuer. "At the same time, we always keep an eye on the needs and demands of our partners and end users."

REHAU offers forward-looking and holistic solutions for sustainable construction and modernisation. The focus here is on subjects such as energy-efficient construction, the use of renewable energies and water management. REHAU is a strong partner to its customers, with sophisticated system solutions and comprehensive service offers in the areas of windows, building technology and civil engineering. With around 20,000 employees at over 170 locations, the independent, family-owned company seeks to be close to the market and the customer.